Vol. 39 / Num. 4

**Marshall Space Flight Center** 

September 23, 1998

## Safety Week's Workforce Stand Down Activities Set for Today

A s part of Safety Awareness Week, Marshall Center is observing a workforce stand down today, devoting the entire day to safety. With the exception of mandatory services — such as fire, security and cafeterias — all work will be

suspended to allow Center personnel to attend Safety Day activities. Today's events kickoff at 9 a.m. with a program in Bldg. 4200, Morris Auditorium, with keynote speaker Fred Gregory, associate administrator of the Office of Safety and



Mission Assurance at NASA Headquarters, and a former astronaut. There also will be a Safety & Health Fair from 10 a.m.-2 p.m. in Bldg. 4200, Room G-13. Visiting astronauts and Center managers will tour Center facilities from 10 a.m.-2:30 p.m. A Lunch-n-Learn seminar will be held at noon in Bldg. 4200, Morris Auditorium.



NASA Photos by Dennis Olive

Marshall Center employees help with the construction of a house for the Care Assurance System for the Aging and Homebound (CASA) and Habitat for Humanity on Saturday during Marshall's fourth annual Community Service Day, part of the Combined Federal Campaign. See more photos on page 3.

### **During Recent Visit to Marshall**

## **Goldin Tours Virtual Nationwide Advanced Propulsion Efforts**

by Mike Wright

To emphasize his focus on "New Frontiers in Engineering," NASA Administrator Dan Goldin participated in a nationwide virtual tour of progress in advanced propulsion during his recent visit to the Marshall Center.

The virtual tour emanated from Marshall's Collaborative Engineering Center in Building 4203. Earlier in the day in an address to Marshall employees, Goldin called for a "revolutionary leap in engineering" at Marshall and around the world. He defined the new approach as "Intelligent Synthesis Environment (ISE)."

Following his address, Goldin visited the engineering center. "Mr. Goldin wanted to review advanced propulsion while he was here at Marshall," said Advanced Space Transportation Program Technical Assistant Steve Cook. "Typically, we might have shown him some view graphs or invited him to tour one of our labs. Given his address on ISE, however, we decided to do something different."

"Even though Marshall is the center of excellence for advanced propulsion, the technology itself is really a nationwide effort," Cook added. Goldin viewed work in Marshall's Computer Tomography Laboratory. "We tied in the propulsion research center here at Marshall. We tied Mr. Goldin in with the General Applied Science Laboratory on Long Island, NY. In addition, we tied in Lawrence Livermore Labs, Calif., and Edwards Air Force Base, Calif."

The demonstration included two-way interaction between Goldin and the researchers at each site. Goldin watched researchers at each location talk about their projects. "But the researchers weren't just transmitting from interactive conference rooms. Each stood next to his or her test article to explain the tests they were conducting, what the objectives were and what accomplishments they had made," Cook said. Goldin then engaged in a dialogue with each participant.

Marshall participants reviewed ceramic blisk technology and a series of physics experiments in anti-matter propulsion. At the General Applied Science Laboratory, Goldin learned about rocket-based combine cycle testing. At Lawrence Livermore, he reviewed magnetic levitation technology. At Edwards, he reviewed pulse detonation technology.

See Goldin on page 4

## New Director Accompanied by Impressive Credentials

**Editor's Note**: Arthur G. Stephenson, president of Oceaneering Advanced Technology, Houston, Texas, becomes the new director of the Marshall Center Monday. Following is his NASA Headquarters biography.

**B** orn in New London, Connecticut in 1942, Art Stephenson graduated from Narbonne High School in Harbor City, California in 1960. He earned a bachelor of science degree in

electrical engineering from the University of Redlands, Redlands, California, in 1964 and completed the **Executive Program** in Management at the John E. Anderson Graduate School of Management at the University of California at Los Angeles in 1990.

Stephenson joined TRW, Redondo Beach, California, in 1964. In his first assignment, he designed a special-purposecomputer digital test set to verify performance of the Apollo Lunar Excursion Module Abort Guidance System. To broaden his



**Marshall Center Director Art Stephenson** 

technical training, he moved to the Radio Frequency Laboratory where he designed spacecraft receiver components. Subsequently, he served as section head and department head within the Radio Frequency Laboratory responsible for researching, designing, and developing space flight telecommunications receivers and transmitters including the Shuttle S-Band communication "Network Transponder."

In 1979, Stephenson transferred to the Space Vehicles Division as Manager of Advanced Systems. In this role, he was responsible for leading TRW's development of Department of Defense (DOD) payloads scheduled to fly onboard the Space Shuttle. Later, he oversaw TRW's light weight solar array programs including the Common Solar Array Project, Space Shuttle Power Extension Package, and Solar Electrical Propulsion System Solar Array.

In 1983, Stephenson led TRW's Orbital Maneuvering Vehicle (OMV), Phase B study for NASA's Marshall Space Flight Center (MSFC) including concept and technology developments such as a 10 to

100 lbs. variable thrust engine. Stephenson subsequently became the OMV Program Systems Engineering and Integration Manager on the hardware development program, which was awarded to TRW by the Marshall Center in 1986.

From 1988 to 1992, Stephenson was Director of Space Transportation and Servicing Advanced Programs. In this role, he headed TRW's

proposal/study teams for NASA's Assured Crew Return Vehicle De-Orbit Module; Europe's Arianne Transfer Vehicle; Japan's Hitachi ETS 7 Spacecraft; TRW's Tracking Data Relay Satellite Expendable Launch Vehicle Study; and TRW's Launch Vehicle Initiative, addressing the U.S. Air Force Medium Launch Vehicle requirement.

In 1992, Stephenson joined Oceaneering International, Inc. as Vice President and General Manager of Oceaneering Space Systems (OSS) in Houston, Texas. Under his leadership, this organization grew from 30 to 220 employees in 5 years. Major customers included the Johnson Space Center, MSFC, DOD, Department of Energy (DOE) and many prime contractors. During this period, OSS designed and manufactured hardware including advanced life support systems; extravehicular activity astronaut tools, tool boxes and crew restraints; advanced robotics and robotic test beds; and space refrigerators. OSS was the support contractor for MSFC's Neutral Buoyancy Simulator until its closing in 1997. In addition, OSS designed and manufactured thermal protection subsystems for Shuttle, Titan 4, Atlas, Delta, X-34 and Kistler launch vehicles.

In 1997, Stephenson was promoted to President of Oceaneering Advanced Technolo-

gies. This position combined Oceaneering Space Systems with responsibility for Oceaneering's U.S. Navy, DOE and entertainment businesses. The Navy work includes ocean search and recovery operations to as deep as 25,000 ft. submarine rescue system design, cable burial, and ship husbandry. DOE support is primarily the design and manufacture of robotics for hazardous waste clean-up at DOE nuclear waste sites in the U.S. The entertainment business includes design, fabrication and installation of large, hydraulically operated animated figures for theme parks in Florida, California, and Japan.

Stephenson is an AIAA Senior Member, member of the National Space Society and American Astronautical Society. He serves on the Board of Advisors for the Rotary National Award for Space Achievement, the Board of Directors for the Clear Lake Economic Development Foundation, and the Board of Directors for the E.A. Smith Family YMCA. Married to Loa J. Stephenson, he and his wife have two adult children, Kristin and John.

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## Marshall Employees Show 'Caring is Sharing'

The fourth annual Marshall Center Community Service Day, which is part of the Combined Federal Campaign (CFC), was held from 9 a.m. -1 p.m. Saturday. More than 50 center employees participated.

Projects included assisting Care Assurance System for the Aging and Homebound (CASA), Christmas Charities, Habitat for Humanity, Salvation Army and Hospitality House.

"The Community Service Day was very successful," said this year's coordinator Karen Dugard of Marshall's Chief Financial Office. "Again Marshall employees came through and really worked hard to show the community that we care."

Meanwhile, Marshall's 1998 CFC bus tours will continue on Thursday with visits to Technology Assistance for Special Customers (TASC), Children's Hospital, Harris Home and Hope Place.

For the convenience of Center employees taking the tours, two busses (A and B) will stop at Bldg. 4610 at 8:15 a.m. with a second stop at Bldg. 4203 (North loop) at 8:30 a.m. Passengers must arrive at the bus stops 10 minutes before departure. The tours should last no more than two hours.





From left, Patti Fundum, Michelle Tidmore and Rene Holden clean toys at Christmas Charities Year Round.

The remaining tour schedule for Sept. 24 is:

Bus A — TASC and Children's Hospital

Bus B — Harris Home and Hope Place

For more information about the bus tours, e-mail Karen Oliver at: karen.oliver@msfc.nasa.gov

or call 544-6908.

The CFC kickoff is set for Oct. 5.



Marshall employees Cindy Upton and Rex Geveden, left, help a Salvation Army employee in the "Soup Kitchen."



Elizabeth Tidmore, right, and Gloria Tidmore fold clothes at Christmas Charities Year Round.

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## CNN's Holliman was Friend to Marshall Center, NASA

NN Correspondent John Holliman was killed in an automobile accident recently in Atlanta. He visited the Marshall Center in November 1996 where he toured and spent the day with Advanced Space Transportation Program office engineer Danny Davis. Davis was the subject of "a day in the life of a rocket engineer" which was included in a five-part CNN series on the future in space.

Marshall Center Media Relations Director John Taylor said Holliman was really interested in the space program.

"While not a cheerleader for NASA, he was certainly someone we could count on to give us good, fair coverage," said Taylor.

"We go down to Kennedy Space Center for most launches, and John always comes over to the Marshall desk in the news center there to say hello and chat a while," said Taylor.

"He recently called June Malone (Marshall Media Relations Office employee) at work and asked her to help him come up with a number of good stories that would help him sell his bosses on a trip to Marshall. She did but he died before he could make the trip. We will miss him."

NASA Administrator Daniel S. Goldin issued the following statement on the passing of Holliman:

"All of us at NASA are stunned and saddened by this tragic loss. John's love and enthusiasm for space flight and exploration was infectious and brought America some of the most memorable moments and finest reporting in the history of NASA.

"John's love for the space program was exceeded only by

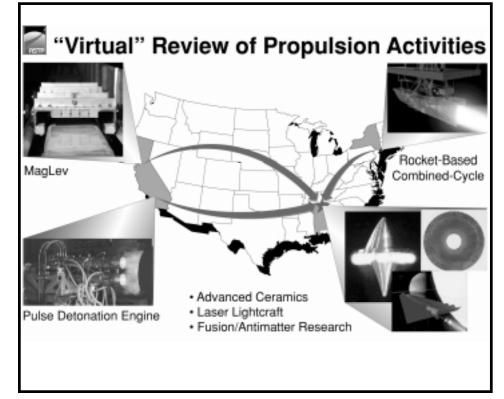


NASA Photo by Terry Leibold

CNN Correspondent John Holliman, right, is greeted by Marshall employee Danny Davis.

his love for his family. I first met John during my confirmation hearings in the spring of 1992. On the many occasions I have spoken with him since, he always exchanged pictures and stories about his family. He was very proud of them and loved them dearly.

"His passing is a tremendous loss for all of us. Our thoughts and prayers go out to Diane and Jay and to his many friends and colleagues at this difficult time."



### Goldin -

Continued from page 1

Marshall Acting Director Carolyn Griner called the CEC "an essential capability for Marshall to excel in future engineering endeavors." The Center will continue to evolve to more capable tools so we remain on the cutting edge not only in propulsion but in all our areas of responsibility, she said.

"He (Goldin) thought it was fantastic and so did Art Stephenson, our new Center Director," Cook said. "They believed that these were the right kind of technologies that NASA should be working on and that the Marshall Center specifically should be working on. They said this is the kind of format we should use for reviews like these. From a content standpoint and performance standpoint it couldn't have gone better."

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# **EDTec Offers Employees Learning Opportunities**

The Employee and Organizational Development Office offers a variety of videotaped seminars produced by Auburn University's Engineering Extension Service. The tapes are now available in the EDTeC Learning Center. The video courses may be used to earn Continuing Education Units. For more information, contact EDTeC at 544-8291.

### **Course Cancellations**

Full Cost Training that was scheduled for Sept. 23 at the Sparkman Center and Supervisory Orientation scheduled Sept. 24 and 25 have been canceled and will be rescheduled in October.

### **Training Opportunities**

Solid Rocket Motor Design & Application, Sept. 28-30, 7:45 a.m. to 4 p.m., Bldg. 4200, room G-19, seating capacity is 15.

Contracting Officer Technical Representative Course - Sept. 28, 29, 30, Oct. 1, 2, 8 a.m. to noon, Bldg. 4200, room G-21, seating capacity is 30.

Balance a Successful Career with a Fulfilling Life, Sept. 29, 12:30 to 2 p.m., Bldg. 4200, room G-13/1, seating capacity is 75.

National Technology Transfer Center Distance Learning Even.

National Technology Transfer Center Distance Learning Event on Successful Technology Transfer:

Intellectual Property: Identifying and Protecting, Sept. 29, noon to 2 p.m., Bldg. 4200, room 329.

## Hispanic Heritage Month To Be Celebrated with Luncheon

Arshall has joined forces with the Army's Aviation and Missile Command to celebrate Hispanic Heritage Month with a luncheon from 11 a.m. to 1 p.m. Sept. 30 in the Redstone Officers Club Grand Ballroom. Featured will be Dr. Blanca Whitt, who will speak on "Women in Leadership." There also will be live Latin and jazz music by the group "Soft Note." Tickets for the luncheon are available for \$7.50 each and may be purchased in the Equal Opportunity Office, Bldg. 4200, room 220, or by calling Alicia Beam at 544-2849 or Luis Trevino at 544-1233.

### **Obituaries**

Steely, Arthur J., 61, Huntsville, died Sept. 3. He retired from Marshall



**Briscoe Stephens** 

Stephens, James Briscoe, 62, Huntsville, died Sept. 14. At the time of his death, Stephens worked as a computer specialist in the Data Systems Branch, ED94. He began working at Marshall on June 7, 1966. Stephens is survived by his sons, James B. Stephens II and Russell "Rusty" Stephens.

in 1991 where he worked as a technical manager. He is survived by his wife, Judy

# Marshall's James Bradford To Be Honored by Goldin Today

ASA will recognize Marshall employee James Bradford today with the Small Business Procurement Leadership Award

during the annual Minority Business and Advocates Awards Ceremony. Also, three minority contractors will be recognized for their exceptional contributions to the nation's space program.

Awards are given annually to minority contractors and subcontractors who have demonstrated significant support of NASA's initiatives.

Bradford's award is given to an individual

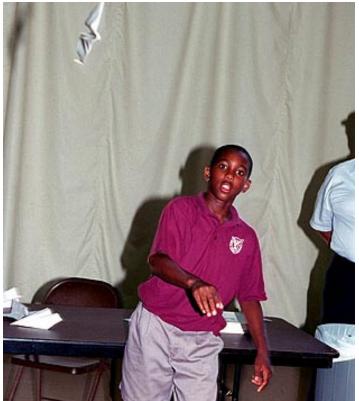


James Bradford

who has shown a strong commitment to the utilization of small and minority businesses to assist NASA in fulfilling its mission. Bradford is recognized for his support of NASA's Congressional District Small Business Briefings where he trains participants on the use of NASA's Acquisition Internet Service.

Minority contractors to receive awards are Symtech Corporation, Alexandria, Va., Stanford Mu Corporation, Harbor City, Calif., and Dynamac Corporation, Rockville, Md.

NASA will honor Bradford and the three companies today at 2:30 p.m. EST in the NASA Headquarters Auditorium.



NASA photo by Dennis Olive

This future pilot tests his aircraft design during the Great Paper Airplane Contest last Friday in Building 4752. The contest, sponsored by the American Institute of Aeronautics and Astronautics, is designed to help teach children and adults about the science and art of aeronautics by spurring imagination and generating excitement.

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### **Employee Ads**

#### Miscellaneous

- ★ Cedar landscape timbers, 6X8 inches, 8 ft. long, 25 total, \$2 each. Call 539-3166.
- ★ Steel vent tailgate, fits "88-"98 full-size Chev/GMC, \$65. 881-9094.
- ★ Nordic Track ski exercise machine, \$200 obo. 533-1006
- ★ Comforters, twin, Sesame Street, Little Mermaid; cribsize, white eyelet, light pink rosebud; stroller. 881-9419
- ★ Alabama vs. Southern Mississippi tickets, Tide Pride east deck, section DD, 3 tickets at \$40 each. 536-5503
- ★ Clyde Pearson traditional sofa, soft gold, 83" long, two cushions, scalloped skirt. 534-4450
- ★ PC tower case w/power supply, \$20 obo; model airplane radio, 6 channel, wide band, \$60 obo. 233-5247
- ★ Power Rider exerciser, \$50. 351-8636
- ★ White Heinrich porcelain service plates, 4 each, \$40; German handpainted candlestick, \$35; Handpainted Bavarian dish, \$25. 882-6832
- ★ 1992 Toyota wheels, 4x4, stock, \$25 each; tires, 31x10.5-R15, mud, set of 4, \$125. 859-4833
- ★ Sofa, \$35; two matching chairs, \$25; Stovetop/ventilator, \$10; decorative curtain rods, \$5 ea. 881-1249
- ★ Lowery organ, including manuals, octave bass pedal, tapes and cassette player, \$350 obo. 539-6624
- ★ Sears 17 cu. ft. frost-free freezer, \$150 or trade for refrigerator. 536-1424
- ★ Persian kittens: one male and two females. Call 498-0629
- ★ Boat cover for 24 ft. Pontoon, \$20. 355-3586

### Vehicles

- ★ 1988 Mazda, B2200 pickup, 5-speed, 115K miles, needs engine work, \$1,000. 851-6425
- ★ 1992 GMC truck, king cab, 4x4, 102K miles, new Michelin tires, diesel, \$12,650. 837-0085
- ★ 1992 Allegro Bay motor home, 32', 48K miles, \$35,000 (negotiable). 881-0278
- ★ 1987 Honda Prelude Si, gray, new CV. 682-9037

## MARSHALL STAR

Marshall Space Flight Center, Alabama 35812

The Marshall Star is published every Wednesday by the Internal Relations and Communications Office at the George Camarshall Space Flight Center, National Aeronautics and Space Administration. Contributions should be submitted no later than Friday noon to the Marshall Internal Relations and Communications Office (CO40), Bldg. 4200, room 101. Submissions should be written legibly and include the originator's name. Send electronic mail submissions to: ann.bryk@msfc.nasa.gov The Marshall Star does not publish commercial advertising of any kind.

Director of Internal Relations and Communications — Norman Brown Managing Editor — Angela D. Storey Writer-Editor — Ann Marie Bryk

NASA at Marshall Space Flight Center may be found at the following Web site: http://www.msfc.nasa.gov

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- ★ 1992 Chevrolet Z71 truck, V-8, automatic, 122K miles, white, bedliner, \$9,750. 851-7255
- ★ 1986 Toyota Celica GT, 64K miles, a/c, 5-speed, \$3,995. 881-8970
- ★ 1997 VW Jetta GL, 4-door, 5-speed, 21K miles, cassette, power sunroof, alarm. 882-0768 after 7 p.m.
- ★ 1986 Corvette, red with red interior, 98K miles, \$9,500. 532-0270

### Wanted

- ★ Female, Gloster canary. 534-5653
- ★ Young Pole white-faced bull. 722-0777
- ★ Ride from Governors Drive area, 7:30 a.m. to 4 p.m. tour. 539-8910
- ★ Honda CT70 or Mini-Trail, any condition, running or not. 539-7379

### **Center Announcements**

- Shuttle Buddies The Shuttle Buddies will meet for breakfast at 9:15 a.m. Sept. 28 at Shoney's on University Drive West.
  Contact: Deemer Self, 881-7757
- MOO The Management Operations Office (MOO) retirees will meet for breakfast/lunch at 10 a.m. Sept. 24 (4th Thursday each month) at the Cracker Barrel in Madison. All present or former MOO employees and retirees are invited. Contact: 539-0042
- \*\*TMA The Marshall Association, formerly known as the Marshall Management Association, is sponsoring "Spouse/Date Night" Sept. 29 at the Rustic Lodge on Redstone Arsenal. Guest speaker will be planetary scientist, writer and artist Dr. William Hartmann. Dress is casual with a social beginning at 6:30 p.m. and dinner at 7 p.m. Ticket cost is \$10 per person. Contact: Jerry Williams at 544-0295.
- Medical Center The Medical Center at Marshall, Bldg. 4249, is open from 7 a.m.-3:30 p.m. Monday-Friday. Available Monday-Friday are: routine blood pressure monitoring, noon-3 p.m.; and allergy

- injection service, 8:30-10:30 a.m. and noon-2:45 p.m. **Contact:** Medical Center, 544-2390
- 40th Anniversary T-Shirts A second chance to order 40th Anniversary Commemorative T-shirts is being offered by the NASA Exchange. T-shirts may be ordered in adult sizes S-XL for \$10; XXL for \$11; and XXXL for \$12 and are available in 100 percent cotton or 50/50 blend. The deadline for placing orders is Sept. 28. Contact: NASA Exchange, 4-7564
- ► NASA Lunar Nooners The NASA Lunar Nooners Toastmasters Club will meet Tuesday, Sept. 29 at 11:30 a.m. in the 4610 cafeteria conference room. All Marshall employees, contractors and friends are invited to attend. For more information call Lee Johns at 544-5142
- held Sept. 12 on Wheeler Lake at First Creek. Charlie Cothran and John Pea won first place with four fish weighing 5.53 pounds. Second place went to Alex Rawleigh and Ken Anthony with four fish weighing 3.49 pounds. Mike Van Hooser and Ross Evans won third place with two fish weighing 2.29 pounds. John Pea caught the biggest fish, a 2.72 pound smallmouth. The next tournament is the "Classic" scheduled for Oct. 10, with the location to be announced. The two remaining tournaments are the "live bait" and the "sauger" in November and December, respectively. Call John Pea at 4-8437, Don McQueen at 4-9073 or Charlie Nola at 4-6367 for additional information.
- ✓ Public Surplus Auction An Industrial and Commercial public surplus auction for Boeing and NASA will be held Sept. 26 at 9 a.m. at Bentley's at 1025 Jordan Road, Huntsville. Viewing and inspection will be Sept. 24 from noon to 5 p.m., Sept. 25 from 8 a.m. to 5 p.m. and Sept. 26 from 7:30 to 9 a.m. Items included in the auction are office furniture, monitors, printers, computers, main frames, scrap metal gauges and vehicles. For more information download the catalog from the internet at www.bentleysauction.com

### **Job Opportunity**

CPP 98-137-KP, AST, Technical Resources Management, GS-801-11, Microgravity Research Program Office, Program Planning and Control Office. Closes Sept. 24

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